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UEDA KAZUYUKI****(54) CATALYST FOR CATALYTIC REDUCTION OF
NITROGEN OXIDE****(57) Abstract:**

PROBLEM TO BE SOLVED: To enable efficient catalytic reduction of NO_x in waste gas by carrying specified amts. of silver aluminate and W, Mo or V on a solid acid carrier and using the resultant catalyst for catalytic reduction of NO_x using hydrocarbon and/or an oxygen-contg. org. compd. as a reducing agent.

SOLUTION: Silver aluminate and at least one selected from among W, Mo and V are carried on a solid acid

carrier by 0.01-10wt.% (expressed in terms of Ag) and 0.0001-0.05wt.%, respectively, to obtain the objective catalyst for catalytic reduction of NO_x using hydrocarbon and/or an oxygen-contg. org. compd. as a reducing agent. Alumina excellent in silver aluminate carrying effect is preferably used as the solid acid carrier. The catalyst is carried on a structure made of an inert substrate by forming a catalytic layer on the surface of the structure by wash coating or other method so that the catalytic layer has $\approx 30\mu\text{m}$ thickness from the surface.

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